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Commercial Fertilizers, Commercial Feeds AND Agricultural Liming Materials

Results of Tests on Products Sold as Vitamin D Carriers.

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ASSAY OF VITAMIN D SUPPLEMENTS SOLD IN MARYLAND
(Fall 1935)

The accompanying table contains the results of a recent assay of samples of fifteen products sold in Maryland as vitamin D supplements for poultry and animal feeding. The samples were secured by Inspectors of this Department during the latter part of August and early September, 1935, from the most recent available shipments. Each brand is registered in accordance with the provisions of the Maryland Feed Law and carries a minimum guarantee of vitamin D potency as measured by the Association of Official Agricultural Chemists' method for assaying anti-rachitic materials. This guarantee is listed opposite the brand name of the product in the column titled "Guaranteed Percentage". It signifies that the product carries sufficient vitamin D to produce an average tibia ash content of 44% or more in a group of White Leghorn chicks fed for a period of four weeks on the A.O.A.C. basal rachitic ration supplemented with the guaranteed percentage of the product. It is to be emphasized here that this percentage is a guarantee of minimum potency as measured by a specific controlled method of assay, and is not to be construed as a recommended level for practical feeding purposes.

Each product was tested at the guaranteed percentage and the results are shown in the column headed "Results of Test". In several previous publications it has been our practice to report a test as "Satisfactory" when the product sustained its guarantee, and "Unsatisfactory" when an ash content of less than 44% was obtained. In this report we are changing our method of stating results to the following plan: In those cases where ash contents of 44% or more were obtained, the statement "Guarantee Sustained" is noted in the appropriate column opposite the brand name and guarantee; where an ash average of less than 44% was obtained, the actual ash value found is being reported. We feel that this method is superior to that we previously used in that it indicates the degree of deficiency in those cases where products fail to meet the guarantees. For example, an ash average of 42% would indicate the product to be but slightly less potent than guaranteed, while an average of 37% would show a severe deficiency in vitamin D.

A number of products registered for sale in Maryland are not included in this test because suitable samples were not obtained. If available, these products, as well as a number of those included here, will be assayed in the near future.

Manufacturer	Brand Name	Guaranteed Percentage	Result of Test
The Acton Company Philadelphia, Pennsylvania	Acton Poultry Cod Liver Oil	1/2%	Guarantee Sustained
	Acton XX Pure Norwegian Cod Liver Oil U.S.P., Medicinal Grade	1/2%	Guarantee Sustained
F. E. Booth Company, Inc. San Francisco, California	Crescent Brand Sardilene	1/4%	Guarantee Sustained
California Packing Corporation *San Francisco, California*	Biotol, Biologically Tested Sardine Oil	3/8%	Guarantee Sustained
Consumers Import Company, Inc. New York City, New York	CICO Cod Liver Oil	1/2%	Guarantee

F. E. Booth Company, Inc. San Francisco, California	Crescent Brand Sardilene	1/4%	Guarantee Sustained
California Packing Corporation San Francisco, California	Biotol, Biologically Tested Sardine Oil	3/8%	Guarantee Sustained
Consumers Import Company, Inc. New York City, New York	CICO Cod Liver Oil	1/2%	Guarantee Sustained
The Fox Company Newfield, New Jersey	Fox Special Cod Liver Oil	1/2%	Guarantee Sustained
Gunning and Gunning New York City, New York	"Gunning—Quality" Cod Liver Oil	1/2%	Guarantee Sustained
Health Products Corporation Newark, New Jersey	CLO-TRATE Concentrated Cod Liver Oil	1/8%	Guarantee Sustained
Chas. L. Huisking & Company, Inc. New York City, New York	Vitamine Brand Cod Liver Oil U.S.P.	1/4%	Guarantee Sustained
McKesson & Robbins, Inc. Bridgeport, Connecticut	Isdahl's Norwegian Cod Liver Oil	1/2%	Guarantee Sustained
National Oil Products Company, Inc. Harrison, New Jersey	Nopco XX Vitamin Concentrate Added to Pure Cod Liver Oil	3/32%	Guarantee Sustained
	Nopco DD Cod Liver Oil	3/8%	Guarantee Sustained
Pratt Food Company Hammond, Indiana	Pratts Cod Liver Oil	1/2%	Guarantee Sustained
Silmo Chemical Company, Inc. Vineland, New Jersey	Silmo XX Cod Liver Oil	1/8%	Guarantee Not sustained 43.25% Ash
	Poultry D Cod Liver Oil	1%	Guarantee Sustained